

IN THE CLAIMS:

Claim 1. (Currently amended) An implantable medical device, comprising:
~~a body portion~~ a stent having an inner surface and an outer surface; and
~~a roughened area~~ a plurality of asperities formed on the inner surface of the stent
~~body portion~~, the asperities being formed of at least one of protrusions and indentations.

By Claim 2. (Currently amended) The medical device of claim 1, wherein the
protrusions and indentations have a shape selected from the group of shapes consisting of
rounded, pointed and rectangular shapes ~~roughened area includes asperities.~~

Claim 3. (Currently amended) The medical device of claim 2, wherein the
asperities comprise material deposited on the area of the inner surface of the ~~[[lens]]~~ stent
that is roughened.

Claim 4. (Currently amended) The medical device of claim 1, wherein the
~~roughened area is~~ asperities are formed on an area of the stent ~~body portion~~ wherein
material has been selectively etched from the stent ~~body portion~~.

Claim 5. (Currently amended) The medical device of claim 1, wherein the
~~roughened area includes~~ asperities are formed on substantially the entire inner surface of
the stent ~~body portion~~.

Claim 6. (Currently amended) The medical device of claim 1, wherein the stent ~~body portion~~ includes first and second ends and the asperities are formed on ~~roughened area~~ is a portion of the inner surface of the stent ~~body portion~~ adjacent the first and second ends such that a middle portion of the inner surface of the stent ~~body portion~~ is smooth.

Claim 7. (Currently amended) The medical device of claim 1, wherein the ~~roughened portion~~ has asperities have a roughness factor greater than 40 nm.

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Claim 8. (Currently amended) The medical device of claim 1, wherein the ~~roughened portion~~ has asperities have a roughness factor greater than 100 nm.

Claim 9. (Currently amended) The medical device of claim 1, further comprising a layer of non-thrombogenic material formed only on the inner surface of the stent ~~body portion~~.

Claim 10. (Currently amended) The medical device of claim 1, wherein the stent ~~body portion~~ includes a wall having a selected thickness defined by the inner and outer surfaces of the stent ~~body portion~~, and wherein the ~~roughened portion includes~~ asperities are formed on at least one region where the wall is thinner than the selected thickness.

Claim 11. (Currently amended) The medical device of claim 10, ~~wherein the roughened area includes~~ further including a groove in the inner surface.

Claim 12. (Currently amended) The medical device of claim 10, wherein the ~~roughened area covers~~ asperities cover substantially the entire inner surface of the stent body portion.

By Claim 13. (Currently amended) The medical device of claim 10, wherein the stent body portion further includes a first end and a second end, and wherein the ~~roughened portion covers~~ asperities cover selected regions adjacent the first and second ends, the stent body portion also having a middle portion that is substantially smooth.

? Claim 14. (Currently amended) The medical device of claim 10, further comprising a friction increasing coating layer formed on the inner surface of the stent body portion.

Claims 15-56 (Cancelled).

Claim 57. (Currently amended) A balloon expandable stent adapted to be mounted on an expandable balloon of a stent delivery catheter for deployment in a patient's vasculature, the balloon expandable stent comprising: ~~An implantable medical device, comprising:~~

a body portion having an inner surface and an outer surface;
an asperity formed on a selected portion of the inner surface of the body portion,
the asperity being formed of at least one of protrusions and indentations; and
a coating of a bio-compatible material applied only to the inner surface of the body
portion over the asperity prior to deployment in the patient's vasculature.

Claim 58. (Currently amended) A balloon expandable stent adapted to be
mounted on an expandable balloon of a stent delivery catheter for deployment in a
patient's vasculature, the balloon expandable stent comprising: ~~An implantable medical
device, comprising:~~

a body portion formed from a tubular member, the body portion having an inner
surface and an outer surface;

a plurality of asperities formed on a selected region of the inner surface of the
body portion, the asperities being formed of at least one of protrusions and indentations;
and

a coating of a material applied over the asperities prior to deployment in the
patient's vasculature for providing reduced interaction between the asperities and fluid
flow in a body lumen.

Claim 59. (Cancelled)

Claim 60. (Currently amended) In a combination of an expandable balloon of a stent delivery catheter and a balloon expandable stent mounted on the expandable balloon, the expandable stent having a body portion with an inner surface and an outer surface, the improvement comprising: ~~An implantable medical device, comprising:~~

~~a tubular body portion having an inner surface and an outer surface;~~

~~a roughened area~~ a plurality of asperities formed on the inner surface of the body portion, the asperities being formed of at least one of protrusions and indentations,

wherein the ~~roughened area~~ has asperities have a roughness factor greater than 40 nm;

and

B2 a coating of a material applied over the asperities ~~roughened area~~, the coating providing reduced interaction between the asperities and fluid flow in a body lumen.

Claim 61. (Cancelled)

Claim 62. (Currently amended) In a combination of an expandable balloon of a stent delivery catheter and a balloon expandable stent mounted on the expandable balloon, the expandable stent having a body portion with an inner surface and an outer surface, the improvement comprising: ~~An implantable medical device, comprising:~~

~~a tubular body portion having an inner surface and an outer surface;~~

a friction increasing coating ~~friction increasing means~~ formed on a selected area of the inner surface of the body portion, the selected area of the inner surface having a roughness factor greater than 40 nm.

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Claims 63-66 (Cancelled).
